

1. A fiber reinforced wall covering material requiring less paint consumption to form an aesthetic outer surface comprising:

a thermoplastic polymer coating applied to said outer side of said non-woven fiber tissue or mat.

3. The wall covering material of claim 1, wherein said thermoplastic polymer coating is applied to said non-woven tissue or mat at between approximately 5 and 200 g/m².

20 5. The wall covering material of claim 1,
 wherein said thermoplastic polymer coating comprises a
 matrix polymer resin selected from the group consisting
 of low density polyethylene, high density polyethylene,
 polypropylene, and combinations thereof.

13

25098A
comprises between approximately 1 and 50% by weight of
said thermoplastic polymer coating.

7. The wall covering material of claim 6,
5 wherein said mineral filler is selected from the group
consisting of calcium carbonate, mica, talcum, clay,
and combinations thereof.

8. The wall covering material of claim 1,
10 wherein said wall covering material has a water vapor
transmission rate of at least approximately 1 gram/m²
per day.

9. The wall covering material of claim 5,
15 wherein said thermoplastic polymer coating further
comprises an opacifying agent, wherein the amount of
said opacifying agent in said thermoplastic polymer
coating is sufficient to create an opacity in the wall
covering of between approximately 70 and 90%.

20 10. The wall covering material of claim 9,
wherein said opacifying agent comprises titanium
dioxide.

11. The wall covering material of claim 1,
wherein said non-woven fiber tissue or mat is comprised
25 of predominantly a first fiber type, said first fiber
type selected from the group consisting of inorganic
fibers and mineral fibers.

12. The wall covering material of claim 1,
wherein said non-woven fiber tissue or mat comprises a

13. The wall covering material of claim 1,
5 wherein said polymeric material comprises approximately
a 45/5/50 by weight mixture of high-density
polyethylene, titanium dioxide, and Papermatch®.

applying a first amount of a thermoplastic
polymeric material to the outer surface of fiber tissue
15 or mat to form a polymer coated wall-covering material.

16. The method of claim 14, wherein the step of applying a first amount of a thermoplastic polymeric material to the outer surface of the fiber tissue or mat to form a polymer coated wall covering material comprises the step of applying between approximately 5 and 200 g/m² of a thermoplastic polymeric material to the outer surface of the fiber tissue or mat to form a polymer coated wall covering material.

17. The method of claim 14, wherein the step of applying a first amount of a thermoplastic polymeric material to the outer surface of fiber tissue or mat to form a polymer coated wall-covering material comprises the step of:

introducing a first amount of a thermoplastic polymeric material to the outer surface of the tissue fiber mat or through a flat extrusion die; and compacting said first amount of said thermoplastic polymeric material and the tissue fiber or mat to form a polymer coated wall covering material.

18. The method of claim 14, wherein the step of applying a first amount of a thermoplastic polymeric material to the outer surface of fiber tissue or mat to form a polymer coated wall covering material comprises the step of applying a first amount of a thermoplastic polymeric material to the outer surface of fiber tissue or mat to form a polymer coated wall covering material, said thermoplastic polymeric material comprising a matrix polymer resin selected from the group consisting of a low density polyethylene polymer resin, a high density polyethylene polymer resin, a polypropylene polymer resin, and combinations thereof.

19. The method of claim 14, wherein the step of applying a first amount of a thermoplastic polymeric material to the outer surface of fiber tissue or mat to form a polymer coated wall covering material comprises the step of applying a first amount of a thermoplastic polymeric material to the outer surface of fiber tissue or mat to form a polymer coated wall covering material, said thermoplastic polymeric material comprising a

matrix polymer resin and a mineral filler, wherein said mineral filler comprises between approximately 1 and 50% by weight of said thermoplastic polymeric material.

20. The method of claim 14, wherein the step
5 of applying a first amount of a thermoplastic polymeric material to the outer surface of fiber tissue or mat to form a polymer coated wall covering material comprises the step of applying a first amount of a thermoplastic polymeric material to the outer surface of the fiber
10 tissue or mat to form a polymer coated wall covering material, wherein an outer visible surface of said polymer coated wall covering material is embossed with a surface structure that may facilitate distribution of subsequently applied wall paint.

15 21. The method of claim 14, wherein the step of applying a first amount of a thermoplastic polymeric material to the outer surface of fiber tissue or mat to form a polymer coated wall-covering material comprises the step of:

20 applying a first amount of a thermoplastic polymeric material to the outer surface of fiber tissue or mat to form a polymer coated wall covering material, said thermoplastic polymeric material comprising a matrix polymer resin, a mineral filler, and an
25 opacifying agent,

wherein said matrix polymer resin is selected from the group consisting of a low density polyethylene polymer resin, a high density polyethylene polymer resin, a polypropylene polymer resin, and combinations
30 thereof;

25098A

wherein said mineral filler is selected from
the group consisting of calcium carbonate, mica,
talcum, clay, and combinations thereof; and

wherein said opacifying agent is titanium
5 dioxide.

09963409-092804
108260-60E39660